EXHIBIT 3

I hereby certify that this correspondence is being electronically transmitted to the United States Patent and Trademark Office on the date shown below:

PRELIMINARY AMENDMENT
Patent Application
Docket No. BTC.103PTXD1

David R. Saliwanchik, Patent Attorney

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Examiner

Not yet assigned

Art Unit

Not yet assigned

Applicant

Yi Jin

Serial No.

15/093,151

DateFiled

April 7, 2016

Conf. No.

6885

For

rTMS at Harmonics of Biological Signals

Mail Stop Amendments Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

PRELIMINARY AMENDMENT

Sir:

Please amend the subject application as follows:

Amendments to the Claims are reflected in the listing of claims beginning on page 2 of this paper.

Remarks/Arguments follow the amendment sections of this paper.

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In the Claims

This listing of claims will replace all prior versions and listings of claims in this application.

1 (currently amended). A method of <u>improving a physiological condition or a neuropsychiatric condition modulating a brain activity</u> of a mammal which comprises subjecting the mammal to repetitive transcranial magnetic stimulation (rTMS) at a frequency of a <u>non-EEG</u> biological metric, or an harmonic or sub-harmonic of said <u>non-EEG</u> biological metric, for a time sufficient to modulate said brain activity wherein an improvement in a physiological condition or a neuropsychiatric condition is achieved.

2 (currently amended). The method of claim 1 wherein the biological metric is heart rate, respiratory rate, <u>or gastrointestinal movement rate</u>, <u>or an EEG frequency</u>.

3 (currently amended). The method of claim 1 wherein the brain activity is a desired EEG band and the rTMS frequency is equal to, or an harmonic or sub-harmonic of, a non-EEG biological metric that is closest to the targeted an intrinsic frequency in the a desired EEG band.

4 (currently amended). The method of claim 3 wherein the non-EEG-biological metric is heart rate, respiratory rate or gastrointestinal movement rate (peristalsis).

5 (currently amended). The method of claim 1 wherein the physiologicaleal condition is concentration, sleep, alertness, memory, blood pressure, stress, libido, speech, motor function, physical performance, cognitive function, intelligence, height or weight.

6 (currently amended). The method of claim 1 wherein the <u>mental-neuropsychiatric</u> condition is Autism Spectrum Disorder (ASD), Alzheimer's disease, ADHD, schizophrenia, anxiety, depression, coma, Parkinson's disease, substance abuse, bipolar disorder, a sleep disorder, an eating disorder, tinnitus, traumatic brain injury, post--traumatic stress syndrome, chronic pain, or fibromyalgia.

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7 (currently amended). The method of claim 2 wherein the <u>intrinsic</u> frequency is <u>in the delta band</u> (<4 Hz), the theta band (4-8 Hz), the alpha band (8-13Hz), the beta band (13-30 Hz), the gamma band (-4025-100 Hz), or the Mu band (8-13 Hz).

8 (currently amended). A method of <u>improving the symptoms</u> modulating a brain activity of a <u>patient</u> <u>person</u> having autism spectrum disorder (ASD) which comprises subjecting the <u>patient person</u> to repetitive transcranial magnetic stimulation (rTMS) at a frequency of a <u>non-EEG</u> biological metric, or an harmonic <u>or sub-harmonic</u> of said biological metric, for a time sufficient to modulate said brain activity wherein an improvement in the symptoms of the ASD is achieved.

9 (currently amended). The method of claim 8 wherein the biological metric is the <u>personpatient</u>'s resting heart rate.

10 (currently amended). A method of <u>improving the symptoms</u> modulating a brain activity of a <u>personpatient</u> having Alzheimer's disease which comprises subjecting the <u>patient-person</u> to repetitive transcranial magnetic stimulation (rTMS) at a frequency of a <u>non-EEG</u> biological metric, or an harmonic <u>or sub-harmonic</u> of said biological metric, for a time sufficient to modulate said brain activity wherein an improvement in the symptoms of the Alzheimer's disease is achieved.

11 (currently amended). The method of claim 10 wherein the biological metric is the <u>patientperson</u>'s resting heart rate.

12 (currently amended). A method of <u>improving the symptoms</u> modulating a brain activity of a <u>personpatient</u> having chronic pain which comprises subjecting the <u>patientperson</u> to repetitive transcranial magnetic stimulation (rTMS) at a frequency of a <u>non-EEG</u> biological metric, or an harmonic <u>or sub-harmonic</u> of said biological metric, for a time sufficient to modulate said brain activity wherein an improvement in the symptoms of the ASD is achieved.

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13 (currently amended). The method of claim 12 wherein the biological metric is the <u>patientperson</u>'s resting-heart rate.

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Remarks

Claims 1-13 were pending in the subject application as filed. By this Amendment, the Applicant has amended claims 1-13. No new matter has been added by this amendment.

The Commissioner is hereby authorized to charge any fees under 37 CFR 1.16 or 1.17 as required by this paper to Deposit Account 19-0065.

Respectfully submitted,

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/093,151	04/07/2016	YI JIN	BTC.103PTXD1	6885
	7590 10/21/201 K, LLOYD & EISENS	-	EXAM	INER
A PROFESSIONAL ASSOCIATION PO Box 142950			LACYK, JOHN P	
GAINESVILLE	E, FL 32614		ART UNIT	PAPER NUMBER
			3735	
			NOTIFICATION DATE	DELIVERY MODE
			10/21/2016	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

euspto@slepatents.com

Case 5:23-cv-00626-XR Docume	ent 32-8 Filed 05/17/24	Page 8 c	of 11			
	Application No. 15/093,151	Applicant(s) JIN, YI				
	Examiner JOHN LACYK	Art Unit 3735	AIA (First Inventor to File) Status No			
The MAILING DATE of this communication appe Period for Reply	ars on the cover sheet with the c	orresponden	ce address			
A SHORTENED STATUTORY PERIOD FOR REPLY THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will - Failure to reply within the set or extended period for reply will, by statute, c Any reply received by the Office later than three months after the mailing d earned patent term adjustment. See 37 CFR 1.704(b).	(a). In no event, however, may a reply be time apply and will expire SIX (6) MONTHS from ause the application to become ABANDONEI	nely filed the mailing date o O (35 U.S.C. § 133	f this communication.			
Status						
1) Responsive to communication(s) filed on						
A declaration(s)/affidavit(s) under 37 CFR 1.13	0(b) was/were filed on					
2a) This action is FINAL . 2b) ☑ This a	ction is non-final.					
3) An election was made by the applicant in respor	nse to a restriction requirement s	set forth durii	ng the interview on			
; the restriction requirement and election h	; the restriction requirement and election have been incorporated into this action.					
4) Since this application is in condition for allowand	4) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex	<i>parte Quayle</i> , 1935 C.D. 11, 45	3 O.G. 213.				
Disposition of Claims*						
5) \boxtimes Claim(s) <u>1-13</u> is/are pending in the application.	Diaim(s) 1-13 is/are pending in the application.					
5a) Of the above claim(s) is/are withdrawn from consideration.						
·	Claim(s) is/are allowed.					
7) Claim(s) <u>1-13</u> is/are rejected.						
8) Claim(s) is/are objected to. 9) Claim(s) are subject to restriction and/or of	alaction requirement					
* If any claims have been determined <u>allowable</u> , you may be elig	·	ecution High	way program at a			
participating intellectual property office for the corresponding app		_	iii ay piogram at a			
http://www.uspto.gov/patents/init_events/pph/index.jsp or send a	·					
Application Papers						
10) The specification is objected to by the Examiner.						
11) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the dr	•		(a).			
Replacement drawing sheet(s) including the correctio						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign p	riority under 35 U.S.C. & 119(a)	-(d) or (f).				
Certified copies:		(4) 0. (.).				
a) ☐ All b) ☐ Some** c) ☐ None of the:						
1. Certified copies of the priority documents	have been received.					
2. Certified copies of the priority documents	have been received in Applicati	on No	<u>_</u> ·			
3. Copies of the certified copies of the priori	-	ed in this Nat	tional Stage			
application from the International Bureau						
** See the attached detailed Office action for a list of the certified	copies not received.					
Attachment(s)						
1) X Notice of References Cited (PTO-892)	3) Interview Summary	(PTO-413)				
2) 🔀 Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/SB	Paper No(s)/Mail Da					
Person No/a\/Mail Data	4) Other:					

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The present application is being examined under the pre-AIA first to invent provisions.

The following is a quotation of 35 U.S.C. 112(b):

(b) CONCLUSION.—The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the inventor or a joint inventor regards as the invention.

The following is a quotation of 35 U.S.C. 112 (pre-AIA), second paragraph: The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 2, 4, 7-13 are rejected under 35 U.S.C. 112(b) or 35 U.S.C. 112 (pre-AIA), second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which the inventor or a joint inventor, or for pre-AIA the applicant regards as the invention.

In claim 7, "the intrinsic frequency" lacks positive antecedent basis, claim 7 is dependent on claim 2 however the frequency being defined as "intrinsic" is not recited until claim 3 and is not present in claims 1 or 2.

In claims 8, 10 and 12 the biological metric is defined as a "non-EEG" biological metric, therefore line 4 of each claim should recite "said non-EEG biological metric" for proper antecedent basis and to keep the claim language consistent throughout the claims (see claim 1). Similarly with claims 2, 4, 9, 11 and 13.

A rejection based on double patenting of the "same invention" type finds its support in the language of 35 U.S.C. 101 which states that "whoever invents or discovers any new and useful process... may obtain a patent therefor..." (Emphasis

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added). Thus, the term "same invention," in this context, means an invention drawn to identical subject matter. See *Miller v. Eagle Mfg. Co.*, 151 U.S. 186 (1894); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); *In re Ockert*, 245 F.2d 467, 114 USPQ 330 (CCPA 1957).

A statutory type (35 U.S.C. 101) double patenting rejection can be overcome by canceling or amending the claims that are directed to the same invention so they are no longer coextensive in scope. The filing of a terminal disclaimer cannot overcome a double patenting rejection based upon 35 U.S.C. 101.

Claims 1-13 is/are rejected under 35 U.S.C. 101 as claiming the same invention as that of claims 1-11 of prior U.S. Patent No. 9,308,385. This is a statutory double patenting rejection.

With regard to claims 1-7 and 10-13, the claims are directed to the same methods only taking language from the "wherein" part of the claim and moving it to the preamble of the claims.

With regard to claims 8-9, the claims are directed to the same method steps as claim 1 and further include treating the same condition (autism spectrum disorder) as recited in claim 6.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to JOHN LACYK whose telephone number is (571)272-4728. The examiner can normally be reached on 8-4:30.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chuck Marmor, II can be reached on 571-272-4730. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

J.P. Lacyk

/JOHN LACYK/ Primary Examiner, Art Unit 3735